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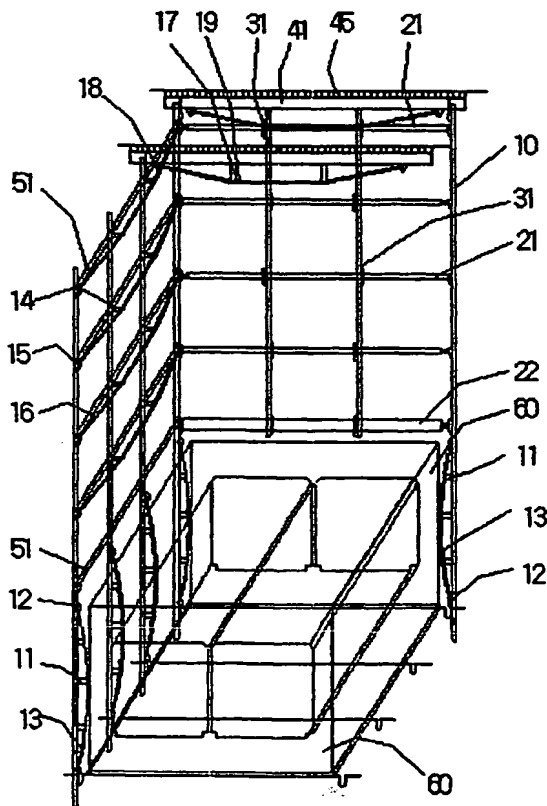
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(54) Title: INNOVATIVE PRESTRESSED SCAFFOLDING SYSTEM



(57) Abstract: Disclosed herein is a support system that is temporarily placed below ground for preventing collapse of the excavated ground when a subway is constructed or a basement of a building is built. The excavated ground or load is supported by means of supporting members, the supporting members being pre-stressed by means of tensioning members and tendon support members serving to support the tensioning members. Consequently, the number of struts for supporting vertical piles and wales is considerably reduced so that obstacles in the underground space when it is excavated are removed. Furthermore, the constructional efficiency of the underground space is greatly improved, and the cost of construction is sharply reduced.

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# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2003/002063

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7 E02D 17/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 E02D 17/00 17/04 17/08

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
KR : IPC as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4372709 A (JOSEF KRINGS) 8 FEBRUARY 1983	1-6
A	US 4453863 A (Russell L. Sutton, Humble, Tex.) 12 JUNE 1984	1-26
A	US 5158398 A (Franciso A. Pinho) 27 OCTOBER 1992	1-26
Y	JP 5-118036 A (TODA CONSTR CO., LTD.) 14 MAY 1993	1-6
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A	JP 2000-297590 A (CHEM GROUTING CO., LTD.) 24 OCTOBER 2000	1-6
Y	KR 10-0188465 B1 (HWANG-MOONSAM) 1 JUNE 1999	1-6
A	KR 2000-0049712 A (KOO-MINSE, KIM-HOEJUN) 5 AUGUST 2000	1-6
A	KR 10-0313721 B1 (HONG-WONKEE, SAMSUNGHEAVYIND.CO.,LTD.) 28 DECEMBER 2001	1-26

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